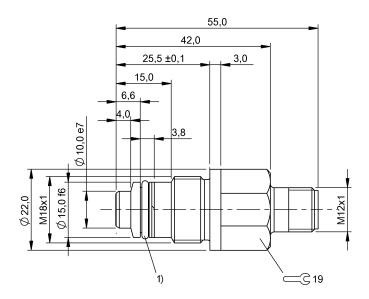
# BES 516-300-S308-S4-D Order Code: BHS004J

# **BALLUFF**



## 1) O-Ring with thrust ring





Protection against device mix-ups

Short-circuit protection



## **Basic features**

Polarity reversal protected	yes
Connection	M12x1-Male, 4-pin, A-coded
Electrical connection	
Power indicator	no
Function indicator	no
Display/Operation	
Basic standard	IEC 60947-5-2
	WEEE
	UKCA
Approval/Conformity	CE

yes

## **Electrical data**

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	8 mA
No-load current lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	150.0 kOhm
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	50 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	2000 Hz
Utilization category	DC -13
Voltage drop static max.	2.1 V

## **Environmental conditions**

MTTF (40 °C)	855 a
Functional safety	
IP rating	IP68
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
EN 60068-2-27, Shock	Half-sinus, 30 $g_n$ , 11 ms
Contamination scale	3
Ambient temperature	-2580 °C

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#### **Interface**

Switching output PNP normally open (NO)

#### Material

Gasket, materialNBR 60-80Housing material1.4104 stainless steel

Material sensing surface EP
Support ring material PTFE

#### Mechanical data

Mounting partM18x1Pressure rating max.500 bar

Pressure rating, note oil pressure rated
Sealing ring, size 12.42 × 1.78 mm

## Range/Distance

Assured operating distance Sa	1.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1.5 mm
Real switching distance sr	1.5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

#### Remarks

The sensor is functional again after the overload has been eliminated. Installation Instructions 614804

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

# **Connector Drawings**



# **Wiring Diagrams**

